

App. No. 10/522,887
Office Action Dated September 18, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Claims 17-20 and 23-25 are amended.

Claims 21-22 and 26-28 are canceled without prejudice or disclaimer.

Listing of Claims:

17. (Currently Amended) A method for producing a transgenic Indica rice ~~varieties~~ variety comprising:

- a. Constructing an expression vector for plant transformation that comprises a promoter, a Manganese superoxide dismutase (MnSOD) gene coding sequence derived from *Nicotiana Plumbaginicola* L., and a transit peptide coding sequence, wherein the promoter, the transit peptide coding sequence and the MnSOD coding sequence are operably linked;
- b. Transforming rice calli of said indica rice variety with the vector constructed in step (a) to a transformant;
- c. ~~Co-culturing the transformant of step (b) with the plant tissue; and~~
- d. ~~Regenerating the transformed calli into mature transgenic plants of said rice variety.~~

18. (Currently Amended) The method according to claim 17, wherein, ~~the said transit peptide coding sequence~~ is a Pea ribulose-1-5-bisphosphate carboxylase gene small subunit transit peptide coding sequence.

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19. (Currently Amended) The method according to claim 17, wherein ~~[[,]]~~ the said promoter is a Cassava vein mosaic Virus ~~CvMV~~ promoter (CaMV).

20. (Currently Amended). The method according to claim 17, wherein ~~[[the]]~~ a terminator used is ~~a~~ ~~[[the]]~~ NOS terminator.

21-22. (Canceled)

23. (Currently Amended) ~~[[A]]~~ The transgenic rice variety produced by the method according to claim 17, wherein said transgenic rice variety that produces high levels of 30-95% increase in superoxide dismutase (SOD) activity.

24. (Currently Amended). The transgenic rice variety according to claim 23, ~~specifically,~~ wherein said transgenic rice variety is selected from the group consisting of Godavari 8 and Salween 2[[.]], that and produces high levels of 30-95% increase in superoxide dismutase (SOD) activity.

25. (Currently Amended) The method according to claim 17, wherein said transgenic plants display increased yield as compared to that of non-transgenic plants under environmental stress conditions, increased tolerance as compared to that of non-transgenic plants to pathogen attack, and play a role in the food industry by increasing a shelf life of said rice variety as compared to that of non-transgenic plants.

26-28. (Canceled)